

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph number [0003] on page 1 of the specification with the following amended paragraph:

[00003] U.S. Patent Application Serial Number 09/705,507 (Attorney Docket No. NECI 1093, 13919), filed 3 November 2000, entitled "Lambertian Reflectance and Linear Subspaces", now U.S. Patent Number 6,853,745, the disclosure of which is hereby incorporated by reference, considered the relationship between the function that describes the lighting intensity, and the reflectance function that describes how much light an object reflects as a function of its surface normal, under a given lighting condition. Representing these functions as spherical harmonics, it was shown that for Lambertian reflectance the mapping from lighting to reflectance is a convolution with a nearly perfect low-pass filter. High-frequency components of the lighting hardly affect the reflectance function. Therefore, nearly all Lambertian reflectance functions could be modeled as some linear combination of nine spherical harmonic components.

Please replace paragraph number [0041] on page 25 of the specification with the following amended paragraph:

[0041] The method of deriving the reflectance function described above is used in the object recognition process. To match an input image with an object model in the database, the object model must be positioned to match the position of the input image.

There are standard methods of performing this function known in the art, though a preferred method is disclosed in U.S. Patent Application Serial Number 09/538,204 09/538,209 (Attorney Docket No. NECI 1083, 13414), filed 30 March 2000, entitled "Method for Matching a Two Dimensional Image to One of a Plurality of Three Dimensional Candidate Models in a Database", now U.S. Patent Number 6,956,569, the disclosure of which is hereby incorporated by reference.